Serial No. 09/755,046

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 17, 19, 30, 32, 41 and 43 in accordance with the following:

- 1-16. (canceled)
- 17. (currently amended) A ruled line extracting apparatus, comprising:

<u>a</u> straight line extracting means for <u>unit</u> extracting information of one or more straight line patterns from an input image; and

<u>a</u> straight line deleting means for <u>unit</u> deleting a shorter pattern of two straight line patterns which are included in the one or more straight line patterns and <u>almost</u> overlap when a <u>ratio of a length of an overlapping portion to a length of the shorter pattern is greater than a threshold value.</u>

- 18. (canceled)
- 19. (currently amended) A ruled line extracting apparatus, comprising:

<u>a</u> straight line extracting means for <u>unit</u> extracting information of one or more straight line patterns from an input image; and

<u>a</u> straight line deleting means for <u>unit</u> deleting a straight line pattern composed of segment patterns which are larger than a threshold value, among the one or more straight line patterns, when sizes of all of the segment patterns are greater than the threshold value.

20-29. (canceled)

30. (currently amended) A computer-readable storage medium, when used by a computer, to direct the computer to perform the functions of:

extracting information of one or more straight line patterns from an input image; and

deleting a shorter pattern of two straight line patterns which are included in the one or more straight line patterns and almost overlap when a ratio of a length of an overlapping portion to a length of the shorter pattern is greater than a threshold value.

Serial No. 09/755,046

- 31. (canceled)
- 32. (currently amended) A computer-readable storage medium, when used by a computer, to direct the computer to perform the functions of:

extracting information of one or more straight line patterns from an input image; and deleting a straight line pattern composed of large segment patterns which are larger than a threshold value, among the one or more straight line patterns, when sizes of all of the segment patterns are greater than the threshold value.

33-40. (canceled)

- 41. (currently amended) A ruled line extracting method, comprising the steps of:
 extracting information of one or more straight line patterns from an input image;
 deleting a shorter pattern of two straight line patterns which are included in the one or
 more straight line patterns and almost-overlap when a ratio of a length of an overlapping portion
 to a length of the shorter pattern is greater than a threshold value.
- 43. (currently amended) A ruled line extracting method, comprising the steps of:
 extracting information of one or more straight line patterns from an input image; and
 deleting a straight line pattern composed of segment patterns which are larger than a
 threshold value, among the one or more straight line patterns, when sizes of all of the segment
 patterns are greater than the threshold value.
 - 44. (canceled)